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NO. 164 P. 2

#8/a w/1449

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

*attach -
Hawkins
6-4-02*

In re application of: Petrine et al.

Attorney Docket No.: SRIIP028/4431-2

Application No.: 09,779,203

Examiner: P. Medley

Filed: February 7, 2001

Group: 2834

Title: MONOLITHIC ELECTROACTIVE
POLYMERS

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being transmitted via
facsimile to the U.S. Patent and Trademark Office, Attention:
Examiner P. Medley at facsimile telephone number (703) 746-4178 on
May 31, 2002.

Signed:

Deborah Neill
Deborah Neill

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T.C. 2800

RESPONSE A

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

This reply and the enclosed remarks are submitted in response to the non-final
Office Action mailed on March 14, 2002. Applicants submit that the attached
remarks fully address the issues raised in the Office Action.

IN THE CLAIMS

Please AMEND the claims as follows:

1. (Once Amended) A transducer for converting between electrical energy and
mechanical energy, the transducer comprising an electroactive polymer having a
plurality of active areas, the plurality of active areas comprising:

a first active area having at least two first active area electrodes and a first
portion of the electroactive polymer arranged in a manner which causes the first
portion to deflect in response to a change in electric field provided by the at least two
first active area electrodes and/or arranged in a manner which causes a change in
electric field in response to deflection of the first portion; and

a second active area having at least two second active area electrodes and a
second portion of the electroactive polymer arranged in a manner which causes the
second portion to deflect in response to a change in electric field provided by the at
least two second active area electrodes and/or arranged in a manner which causes a
change in electric field in response to deflection of the second portion,

wherein the electroactive polymer is elastically pre-strained.

USSN 09/779,203
SRIIP028/4431-2

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